

**TOWN OF OLD ORCHARD BEACH
REGULAR TOWN COUNCIL WORKSHOP
TUESDAY, AUGUST 4, 2020
TOWN HALL COUNCIL CHAMBERS
6:30 p.m.**

A Town Council Workshop was held prior to the Town Council Meeting on Tuesday, August 4, 2020 to discuss the Wastewater Project.

The following were in attendance:

**Chair Shawn O'Neill
Vice Chair Michael Tousignant
Councilor Jay Kelley
Town Manager Larry Mead
Assistant Town Manager V. Louise Reid
Chris White – Superintendent of Waste Water
Brent Bridges – Woodard & Curran**

Absent: Councilor Kenneth Blow

Brent Bridges gave a short discussion on the progress of the Waste Water new facility.

The Wastewater Department is responsible for the maintenance and operation of the pollution control facility and eight (8) remote pump stations. The maintenance and operations departments are required to have working knowledge of each other's general duties. Everyday duties include inspecting facility equipment, pump station equipment, scheduling maintenance, laboratory testing and operational adjustments. Other duties consist of operating the solids disposal equipment, coordinating outside contractors, diagnosing electrical and mechanical equipment, scheduling in house repairs, ongoing training, ordering parts/supplies/material and yard maintenance. Staff faces a number of biological, electrical and mechanical hazards on a daily basis. Training and attention to safety play an important role in everything we do. It should be noted that in comparing wages and benefits as part of the total departmental budget; the labor costs are a much smaller percentage in this department than others are.

Although wastewater treatment in most municipalities tends to be less in the public eye than other departments, it is a service that is provided 24 hours a day. There are tremendous amounts of technology and infrastructure that make up the wastewater treatment system. It is a huge investment and it is very important that the public be educated on what it takes to properly operate the facility. There have been tremendous advances in how wastewater is treated and great strides have been made in technology. Newer equipment saves manpower, electricity and provides a safer working atmosphere for the employees.

The construction of a new administration building starting in early spring is expected to be completed by the end of 2020. The department is also in the middle of a fiscal sustainability plan (FSP), climate adaptation plan (CAP) as well as determining the cost of upgrading the wastewater facility and associated pump stations. All of these undertakings will require staff time over and above normal duties. This will be an extremely expensive endeavor for the town and it will be critically important the design serves the community for the next few decades in the most efficient and safe manner possible. Added pressure from state regulatory agencies are part of the driving force behind these activities. It is also expected that the state will require the department to establish a software maintenance program. This will be very time consuming for staff to create and maintain.



TOWN OF OLD ORCHARD BEACH, ME
 WASTEWATER TREATMENT FACILITY & PUMP STATION ASSESSMENT
 PROPOSED PROJECT LIST
 APRIL 2020

Project Number	Location	Project Description	Need for Upgrades
CRITICAL PROJECTS			
1.	Main Electrical System	<ul style="list-style-type: none"> ■ Replace electrical feed for WWTF site <ul style="list-style-type: none"> ▶ New electrical service & transformer from CMP ▶ New electrical enclosure or building for main breaker & switchgear ▶ New diesel-powered standby emergency generator for entire WWTF ▶ New electrical distribution system (duct bank) ■ New electrical gear (MCC's & VFDs) to replace all existing electrical gear on site 	<ul style="list-style-type: none"> ■ Electrical System Upgrade ■ Age & Condition ■ O&M ■ Resiliency
2.	Plantwide SCADA System	<ul style="list-style-type: none"> ■ Provide plant wide SCADA system ■ Provide plant wide fiber-optic communications network ■ Provide Main Control Panel in New Administration Building ■ Provide remote I/O panels for Primary Sedimentation Tank Bldg., Process Bldg., CCT/Effluent Structure, & Effluent PS & Halfway PS 	<ul style="list-style-type: none"> ■ O&M ■ Resiliency ■ Permit Compliance ■ Cyber Security
3.	Halfway Pump Station	<ul style="list-style-type: none"> ■ Rehabilitate the existing pump station & expand wet well and dry well area ■ Replace existing pumps with duty standby arrangement ■ Provide beam and access hatch for pump removal ■ Structural repairs as needed ■ Demolish existing control building and construct new building enclosure for Halfway pump station (dry well only), maintenance garage, and new main electrical room 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance
4.	Primary Sedimentation Tanks	<ul style="list-style-type: none"> ■ Mechanical: <ul style="list-style-type: none"> ▶ Replace collection equipment & weirs in (All 5) ■ Replace primary sludge & scum pumps 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance
5.		<ul style="list-style-type: none"> ■ Structural: <ul style="list-style-type: none"> ▶ Enclosure for exterior stairs to pump gallery ▶ Tank concrete repairs ▶ Remove scaling in influent launder ■ Provide safety grating for access hatches 	<ul style="list-style-type: none"> ■ Age & Condition ■ Preventative Maintenance ■ Safety
6.		<ul style="list-style-type: none"> ■ Electrical: <ul style="list-style-type: none"> ▶ Replace electrical gear (MCC & Lighting Panels) ■ Relocate electrical gear to new enclosure located on top deck of Primary sed tanks (above flood elevation) 	<ul style="list-style-type: none"> ■ Electrical Upgrades ■ Age & Condition ■ Resiliency
7.		<ul style="list-style-type: none"> ■ Controls: <ul style="list-style-type: none"> ▶ Provide controls means to allow for any PS pump to pump from any sedimentation tank 	<ul style="list-style-type: none"> ■ Process Control
8.	Aeration Tanks	<ul style="list-style-type: none"> ■ Mechanical: <ul style="list-style-type: none"> ▶ Replace existing fine bubble aeration diffusers ▶ Nitrogen management system <ul style="list-style-type: none"> - New anoxic selector tanks with mixers in the existing Aeration Tanks (original) - New recycle pumps from ATs to anoxic tanks ▶ New foam mitigation system/froth spray system ■ New slide gate in effluent launder 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance ■ Capacity Limitations ■ Process Control ■ Treatment Performance



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9.	Secondary Clarifiers	<ul style="list-style-type: none"> ■ Secondary Clarifier #1 <ul style="list-style-type: none"> ▶ Provide density current baffles ▶ Provide dome cover 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance ■ Treatment Performance
10.	Chlorine Contact Tank	<ul style="list-style-type: none"> ■ Reconfigure CCT to serpentine baffle arrangement ■ Replace mud valves, knife gate valves, gate operators ■ Concrete repairs as needed ■ Scum Baffles 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance ■ Treatment Performance
11.	Chlorine Feed System	<ul style="list-style-type: none"> ■ Relocate chemical feed system to be adjacent to CCT ■ New insulated & heated double walled sodium hypo storage tanks ■ Relocate existing chemical metering pumps ■ New transfer pump to pump to existing day tank in Process Bldg. ■ New enclosure (small building) for electrical gear, controls equipment, and chemical pumps 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance ■ Process Control
12.	RAS/WAS Pumping	<ul style="list-style-type: none"> ■ Provide SCADA control to allow RAS/WAS pumps to be flow paced off influent or effluent flowrate 	<ul style="list-style-type: none"> ■ Process Control ■ O&M ■ Treatment Performance
13.	Sludge Processing Equipment	<ul style="list-style-type: none"> ■ Provide 2nd Huber Q800 screw press & polymer feed system ■ New sludge conveyors w/ covers ■ Provide new sludge garage sized for sludge can ■ Provide odor control system for sludge garage & sludge conveyors & each screw press 	<ul style="list-style-type: none"> ■ O&M ■ Permit Compliance ■ Process Control ■ Resiliency ■ Odor Control ■ Safety ■ Protection of Building & Equipment
14.	Process Building	<ul style="list-style-type: none"> ■ Structural: <ul style="list-style-type: none"> ▶ Exterior/1st floor: <ul style="list-style-type: none"> - Exterior repairs (siding, roofing, etc.) - Roof flashing at parapet walls - New rollup door - Replace or repaint doors & frames - Replace concrete stair treads - Repaint & Seal exterior CMU - Modify existing sludge can area into loading dock - Relocate stairs on east side to current bathroom location ▶ Blower Room: <ul style="list-style-type: none"> - Repair crack in floor ▶ Pump Gallery <ul style="list-style-type: none"> - Repair basement floor slab – void area ■ Repaint columns 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Safety ■ Building Preventative Maintenance



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15.		<ul style="list-style-type: none"> ■ HVAC: <ul style="list-style-type: none"> ▶ Provide energy recover ventilator (ERV) for pump gallery & dewatering area ▶ Provide AC unit for blower room 	<ul style="list-style-type: none"> ■ HVAC/Cooling Equipment Upgrades ■ Building & Equipment Preventative Maintenance
16.		<ul style="list-style-type: none"> ■ Plumbing: <ul style="list-style-type: none"> ▶ Provide city water connection for polymer feed system ▶ Provide hot water heater 	<ul style="list-style-type: none"> ■ O&M ■ Process Reliability
17.	Plant Water System	<ul style="list-style-type: none"> ■ Replace underground piping and yard hydrants 	<ul style="list-style-type: none"> ■ O&M ■ Process Reliability
18.		<ul style="list-style-type: none"> ■ Provide new plant water pump system 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M
19.	Effluent Pump Station	<ul style="list-style-type: none"> ■ Replace/rebuild pumps <ul style="list-style-type: none"> ▶ Replace 150 HP pumps ▶ Replace 14 HP pumps ■ Evaluate intermediate pump (between 14 & 150 HP) 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Process Control
20.	WWTF Site Work	<ul style="list-style-type: none"> ■ Motor Operated Vehicle Gate (Cover to be provided in closed position) 	<ul style="list-style-type: none"> ■ Site Improvements ■ Security
21.	Comfort Pump Station	<ul style="list-style-type: none"> ■ Additional Wet Well Access ■ New Flow Meter ■ Control System Upgrades ■ New Generator (Reuse of Halfway PS Generator) 	<ul style="list-style-type: none"> ■ O&M ■ Age & Condition ■ Permit Compliance
22.	Ross Road Pump Station	<ul style="list-style-type: none"> ■ Complete Pump Station Upgrade to Suction Lift Station ■ Upgrade electrical feed to site ■ Dedicated Generator 	<ul style="list-style-type: none"> ■ O&M ■ Age & Condition ■ Capacity Limitations
23.	Portland Avenue Pump Station	<ul style="list-style-type: none"> ■ Complete Pump Station Upgrade ■ Upgrade electrical feed to site ■ Dedicated Generator ■ Remove Stormwater Flow from Development 	<ul style="list-style-type: none"> ■ O&M ■ Age & Condition ■ Capacity Limitations ■ Permit Compliance
24.	Milliken Street Pump Station	<ul style="list-style-type: none"> ■ Complete Pump Station Upgrade to Suction Lift Station ■ Dedicated Generator 	<ul style="list-style-type: none"> ■ O&M ■ Age & Condition ■ Capacity Limitations ■ Permit Compliance

CRITICAL PROJECTS OPINION OF PROBABLE COST ESTIMATE TOTAL = \$23,500,000

The Workshop ended at 7:35 p.m.

Respectfully Submitted,

**V. Louise Reid
Town Council Secretary**

**I, V. Louise Reid, Secretary to the Town Council of Old Orchard Beach, Maine, do hereby certify that the foregoing document consisting of five (5) pages is a copy of the original Minutes of the Town Council Workshop Meeting of August 4, 2020.
V. Louise Reid**